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Ratio and Proportion Worksheets 7th Grade

1. Simplify the ratio 42 : 63.
2. Ron gets 20% more marks than John. Find the ratio of their marks.
3. Divide \$490 in the ratio 4 : 3.
4. A man distributes his savings of \$4000 among his three sons, in the ratio 4 : 3 : 3. Find the amount received by his first son.



5. If the ratio $a : b = 2 : 3$, and $b : c = 3 : 4$. Find the ratio $a : c$.
6. There are two numbers. Five times the first, and four times the second are equal. Find the ratio of the two numbers.
(a) 5 : 4 (b) 4 : 5
7. Find the fourth proportion of 4, 9 & 12
(a) 18 (b) 36 (c) 72 (d) 27 (e) 24
8. Find the third proportion of 16 and 36
(a) 81 (b) 144 (c) 196 (d) 64 (e) 100
9. The ratio of two positive numbers is 4 : 7.. If the difference of the numbers is 15, find the larger number.
(a) 25 (b) 30 (c) 20 (d) 35
10. Sub-duplicate ratio of 9 : 16
(a) 81 : 256 (b) 27 : 64 (c) 9 : 16 (d) 3 : 4
11. The mean proportion of 16 and 9 is _____.

12. Find the duplicate ratio of 4 : 5.
13. The total number of male and female employees in a company are 60. Which of the following represent the ratio of male and female employees in the company.?



- (a) 1 : 4 (b) 4 : 3 (c) 1 : 6 (d) 5 : 3
14. The LCM of two numbers is 160, and their ratio is 4 : 5. Find the largest of the two numbers.
(a) 40 (b) 45 (c) 20 (d) 15
15. If $a/2 = b/3 = c/4$. Find the ratio $a : b : c$.
16. $x/4 = y/3$. Find the ratio $(x + 4) : (y + 3)$.
17. In a class 20% of the boys is equal to $1/4^{\text{th}}$ of the girls. What is the ratio of the boys and girls in the class.
18. Find the compound ratio of 2 : 3 and 5 : 4.
19. The sum of five times the first number and two times the second number is equal to twice the difference of thrice of the first number and twice the second. Find the ratio of the two numbers.
(a) 1 : 6 (b) 6 : 1 (c) 2 : 1 (d) 3 : 4
20. If 60 men do a piece of work in 27 days, then in how many days can 18 men do the same work?
(a) 120 days (b) 90 days (c) 100 days (d) 60 days

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$2 : 3$
2)	$6 : 5$
3)	\$. \$ 210
4)	1600
5)	$1 : 2$
6)	(b) $4 : 5$

7)	27
8)	(a) 81
9)	(d) 35
10)	(d) 3 : 4
11)	12
12)	16 : 25
13)	(a) 1 : 4

14)	(a) 40
15)	2 : 3 : 4
16)	4 : 3
17)	5 : 4
18)	5 : 6
19)	(b) 6 : 1
20)	(b) 90 days

FUN FACT

1. Proportions are often used in day to day business world. Demand and price are in direct proportion, and production and price of a commodity are in inverse proportion.
2. Ratio of water and land on the earth is 29 : 71.
3. The ratio of carbon to oxygen in carbon dioxide is 2.66 : 1

